

Title (en)  
System and method for controlling an oscillator

Title (de)  
System und Verfahren zur Steuerung eines Oszillators

Title (fr)  
Système et procédé de commande d'un oscillateur

Publication  
**EP 1119107 A3 20040616 (EN)**

Application  
**EP 00311051 A 20001212**

Priority  
US 17126199 P 19991215

Abstract (en)  
[origin: EP1119107A2] An oscillator(40) controls the frequency of an output clock signal (50) in response to detecting an error in the frequency of an input clock signal (52). The oscillator (40) includes an inverter operable to generate a voltage signal and a resonator coupled to the inverter operable to introduce a phase shift in the voltage signal. The oscillator (40) also includes a variable impedance positioned across a feedback path of the inverter and operable to introduce a further phase shift in the voltage signal in response to the detected error. The resonator is further operable to adjust the frequency of the voltage signal in response to the introduced further phase shift. The voltage signal (40) is used as the output clock signal(14). <IMAGE>

IPC 1-7  
**H03L 7/099**; H03L 7/02; H03J 7/04; H03B 5/32; H03K 3/03

IPC 8 full level  
**H03B 5/32** (2006.01); **H03L 7/099** (2006.01)

CPC (source: EP US)  
**H03L 7/099** (2013.01 - EP US)

Citation (search report)

- [XY] US 3803828 A 19740416 - KEELER E, et al
- [XY] EP 0466388 A2 19920115 - AMERICAN TELEPHONE & TELEGRAPH [US]
- [XY] US 5777522 A 19980707 - RYBICKI MATHEW A [US], et al
- [A] US 5982246 A 19991109 - HOFHINE PAUL H [US], et al

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AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)  
**EP 1119107 A2 20010725**; **EP 1119107 A3 20040616**; JP 2001203572 A 20010727; US 2002063604 A1 20020530; US 6459342 B1 20021001

DOCDB simple family (application)  
**EP 00311051 A 20001212**; JP 2000379549 A 20001214; US 72705900 A 20001130